

(Modified) PTO/SB/08A-B (10-98)
Approved for use through 10/31/99, OMB 0551-0031

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	10/076,135
	Filing Date	February 14, 2002
	First Named Inventor	Stern
	Group Art Unit	1741
	Examiner Name	
Attorney Docket Number		100/11020

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appar
		Number	Kind Code (if known)			
JS	AA	4,390,403		Batchelder	06-28-1983	
	AB	4,908,112		Pace	03-13-1990	
	AC	5,126,022		Soane et al.	06-30-1992	
	AD	5,271,724		van Lintel	12-21-1993	
	AE	5,277,556		van Lintel	01-11-1994	
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	AG	5,498,392		Wilding et al.	03-12-1996	
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	AN	5,637,469		Wilding et al.	06-10-1997	
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	AQ	5,750,015		Soane et al.	05-12-1998	
	AR	5,800,690		Chow et al.	09-01-1998	
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	AU	5,869,004		Parce et al.	02-09-1999	
	AV	5,876,875		Kennedy	03-02-1999	
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	AY	5,885,470		Parce et al.	03-23-1999	
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JS	BA	5,942,443		Parce et al.	08-24-1999	



Examiner Signature		Date Considered	8/17/04
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	BD	5,958,694		Nikiforov	09-28-1999	
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	BO	6,100,541		Nagle et al.	08-08-2000	
	BP	6,120,688		Jacobson et al.	09-19-2000	
	BQ	6,221,226		Kopf-SIII	04-24-2001	
	BR	6,235,471		Knapp et al.	05-22-2001	
95	BS	6,280,589		Manz et al.	08-28-2001	
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		Office	Number	Kind Code (if known)				
	BU	WO	9405414		UC Regents	03-17-1994		
	BV	WO	9502189		Abaxis, INC.	01-19-1995		
	BW	WO	9604547		Lockheed Martin	02-15-1996		
	BX	WO	9702357		Affymetrix, Inc.	01-23-1997		
	BY	WO	9845481		Caliper	09-15-1998		
	BZ	WO	9846438		Caliper	09-22-1998		
	CA	WO	9849548		Caliper	10-05-1998		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examin or Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	CB	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> (1994) 66:1792-1798	
	CC	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," <u>Anal. Chem.</u> (1993) 65: 2637-2642	
	CD	EFFENHAUSER, C.S. et al., "High Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," <u>Anal. Chem.</u> (1994) 66: 2949-2953	
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	CF	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> (1994) 66: 177-184	
	CG	FISTER, J.C. III et al., "Counting Single Chromophore Molecules for Ultrasensitive Analysis and Separations on Microchip Devices," <u>Anal. Chem.</u> (1998) 70: 431-437	
	CH	HADD, A.G. et al., "Microfluidic Assays of Acetylcholinesterase," <u>Anal. Chem.</u> (1999) 71: 5206-5212	
	CI	HARRISON, J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> (1992) 64: 1926-1932	
	CJ	HARRISON, J. et al., "Towards Miniaturized Electrophoresis and Chemical Analysis Systems on Silicon: An Alternative to Chemical Sensors*," <u>Sensors and Actuators B</u> (1993) 10: 107-116	
	CK	HARRISON, J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> (1993) 261: 895-897	
	CL	HARRISON, D.J. et al., "Integrated Electrophoresis Systems for Biochemical Analyses," <u>Solid-State Sensor and Actuator Workshop</u> (1994) 21-24	
	CM	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> (1994) 66:1107-1113	
	CN	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> (1994) 66: 1114-1118	
	CO	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> (1994) 66: 2369-2373	
	CP	JACOBSON, S.C. et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> (1994) 66: 4127-4132	

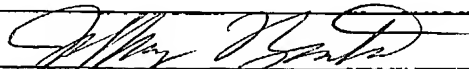
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95	CQ	JACOBSON, S.C. et al., "Microchip Electrophoresis with Sample Stacking," <u>Electrophoresis</u> (1995) 16: 481-486	
	CR	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> (1995) 67: 2059-2063	
	CS	JACOBSON, S.C. et al., "Integrated Microdevice for DNA Restriction Fragment Analysis," <u>Anal. Chem.</u> (1996) 68: 720-723	
	CT	JACOBSON, S.C. et al., "Electrokinetic Focusing in Microfabricated Channel Structures," <u>Anal. Chem.</u> (1997) 69: 3212-3217	
	CU	JACOBSON, S.C. et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," <u>Anal. Chem.</u> (1999) 71: 4455-4459	
	CV	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> (1990) B1: 244-248	
	CW	MANZ, A. et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," <u>Trends in Analytical Chemistry</u> (1991) 10:144-149	
	CX	MANZ, A. et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques Into Monitoring Systems," <u>Journal of Chromatography</u> (1992) 593:253-258	
	CY	MANZ, A. et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective In Chemical Monitoring,"	
	CZ	MANZ, A. et al., "Electroosmotic Pumping and Electrophoretic Separations for Miniaturized Chemical Analysis Systems," <u>J. Micromach. Microeng.</u> (1994) 4: 257-265	
	DA	MANZ, A. et al., "Parallel Capillaries for High Throughput In Electrophoretic Separations and Electroosmotic Drug Discovery Systems," <u>International Conference on Solid-State Sensors and Actuators</u> (1997) 915-918	
	DB	MCCORMICK, R.M. et al., "Microchannel Electrophoretic Separations of DNA in Injection-Molded Plastic Substrates," <u>Anal. Chem.</u> (1997) 69: 2626-2630	
	DC	MOORE, A.W. et al., "Microchip Separations of Neutral Species via Micellar Electrokinetic Capillary Chromatography," <u>Anal. Chem.</u> (1995) 67: 4184-4189	
	DD	RAMSEY, J.M. et al., "Microfabricated Chemical Measurement Systems," <u>Nature Medicine</u> (1995) 1:1093-1096	
	DE	SALIMI-MOOSAVI, H. et al., "Biology Lab-on-a-Chip for Drug Screening," <u>Solid-State Sensor and Actuator Workshop</u> (1998) 350-353	
	DF	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> (1993) 65:1481-1488	
95	DG	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> (1994) 66:3485-3491	

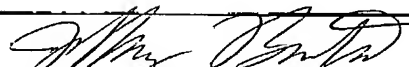
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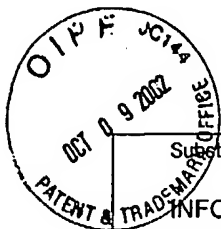
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		Filing Date	February 14, 2002
		First Named Inventor	Stern
		Group Art Unit	1741
		Examiner Name	
		Attorney Docket Number	100/11020

93	DH	UEDA, M. et al., "Imaging of a Band for DNA Fragment Migrating in Microchannel on Integrated Microchip," <u>Materials Science and Engineering C</u> (2000) 12:33-36	
	DI	WANG, C. et al., "Integration of Immobilized Trypsin Bead Beds for Protein Degestion within a Microfluidic Chip Incorporating Capillary Electrophoresis Separations and an Electrospray Mass Spectrometry Interface," <u>Rapid Commun. Mass Spectrom.</u> (2000) 14:1377-1383	
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	DK	WOOLLEY, A.T. et al., "Functional Integration of PCR Amplification and Capillary Electrophoresis in a Microfabricated DNA Analysis Device," <u>Anal. Chem.</u> (1996) 68: 4081-4086	
	DL	WOOLLEY, A.T. et al., "High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips," <u>Anal. Chem.</u> (1997) 69:2181-2186	
	DM	WOOLLEY, A.T. et al., "Capillary Electrophoresis Chips with Integrated Electrochemical Detection," <u>Anal. Chem.</u> (1998) 70: 684-688	
93	DN	ZHANG, B. et al., "Microfabricated Devices for Capillary Electrophoresis-Electrospray Mass Spectrometry," <u>Anal. Chem.</u> (1999) 71:3258-3264	

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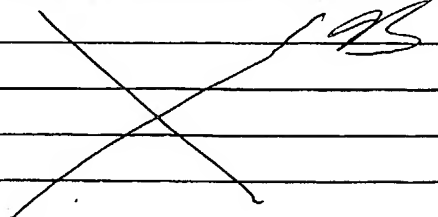


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JS	AA	5,645,702		Witt et al.	07-08-1997	
JS	AB	6,132,580		Mathies et al.	10-17-2000	
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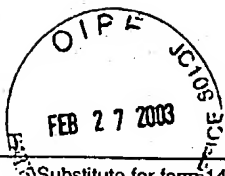
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		Office	Number	Kind Code (if known)				
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
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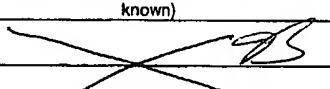
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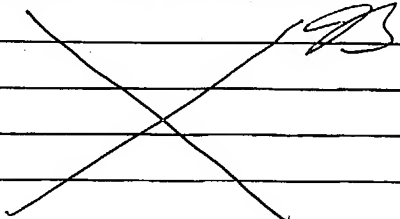
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